

# EAST Search History

RA

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	9	kang near3 dong\$1hoon	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/15 09:55
S2	10	("4521772"   "4704525"   "4751505"   "5783815"   "6369380").PN. OR ("6541762").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 10:39
S3	33	("4022969"   "4092532"   "4303914"   "4354102"   "4390873"   "4409479"   "4631400"   "4686329").PN. OR ("4751505"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 10:46
S4	8	("5424756"   "5801681"   "6057540"   "6243080"   "6452683"   "6501460"   "6541762"   "6621483").PN. OR ("6762751"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 10:50
S5	3	("20030142075"   "6541762").PN. OR ("6967321").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 10:51
S6	2	("20030142078"   "6541762").PN. OR ("7045775").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 10:57
S7	1639	(345/163,166).ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 10:57
S8	21749	(sensor near4 (die   chip   chip\$1on   IC   (integrated near3 circuit\$2)   Cob   Dip))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:22
S9	15575	((LED   (light near3 emit\$4)) near4 (die   chip   chip\$1on   IC   (integrated near3 circuit\$2)   Cob   Dip))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:21
S10	298	S8 same S9	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 11:01
S11	23	S7 & S10	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 11:01
S12	0	("2005/0093825").URPN.	USPAT	OR	OFF	2006/12/13 12:20
S13	3	("20030142075"   "6541762").PN. OR ("6967321").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 12:21
S14	3	("20050253058"   "6256016"   "6967321").PN. OR ("7142376"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 12:34

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S15	2303	(optical near4 (mouse   mice))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 12:34
S16	27	S10 & S15	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 12:34
S17	7	S16 not S11	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 12:36
S18	19995	((prism\$1  prism\$1integrat\$4) near4 len\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 12:37
S19	20	S10 & S18	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 12:37
S20	7	S19 & (S7   S15)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 12:38
S21	9	("4751505"   "5578813"   "5644139"   "5786804"   "5912661"   "5994710"   "6057540"   "6151015"   "6256016").PN. OR ("7126585"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 12:44
S22	33	("4022969"   "4092532"   "4303914"   "4354102"   "4390873"   "4409479"   "4631400"   "4686329").PN. OR ("4751505"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 12:48
S23	9	("4751505"   "4799055"   "4804949"   "5086197"   "5517211").PN. OR ("6501460").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 12:56
S24	10	("4521772"   "4704525"   "4751505"   "5783815"   "6369380").PN. OR ("6541762").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 12:59
S25	4	("20030034959"   "4751505"   "5349371"   "6218659").PN. OR ("7050043").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:02
S26	9	("4751505"   "5578813"   "5644139"   "5786804"   "5912661"   "5994710"   "6057540"   "6151015"   "6256016").PN. OR ("7126585"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:03

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S27	87	("3145368"   "3201751"   "3304434"   "3473036"   "3496364"   "3524067"   "3541521"   "3541541"   "3572881"   "3701095"   "3835464"   "3868655"   "3892963"   "3906465"   "3949235"   "3987685"   "4114034"   "4149269"   "4180704"   "4260979"   "4329684"   "4364035"   "4390873").PN. OR ("4521772").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:03
S28	46	("3285548"   "3286255"   "3659093"   "4195330"   "4521772"   "4521773"   "4794384"   "4799055"   "4866258"   "4908743"   "5264998"   "5291028"   "5440468"   "5517211"   "5578813"   "5644139"   "5686720"   "5703353"   "5709462"   "5729008"   "5769384"   "5786804"   "5793356"   "5825044"   "5949402"   "5994710"   "6040950"   "6049338"   "6057540"   "6084574"   "6104020"   "6119939"   "6151015"   "6175357"   "6188057"   "6233368"   "6281882"   "6380927"   "6421045"   "6462330"   "6476970"   "6501460"   "6531692"   "6657184").PN. OR ("7131751").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:07
S29	13	("5274456"   "5359190"   "5424531"   "5783815"   "5811799").PN. OR ("6462330").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:12
S30	9	("20030006985"   "5578813"   "5686720"   "5943233"   "6256016"   "6421045"   "6424407"   "6462330"   "6486873").PN. OR ("7129929").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:18
S31	2	("20030142078"   "6541762").PN. OR ("7045775").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:19
S32	10	("4521772"   "4704525"   "4751505"   "5783815"   "6369380").PN. OR ("6541762").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:20
S33	27403	((LED   (light near3 (emit\$4   source))) near4 (die   chip   chip\$1on   IC   (integrated near3 circuit\$2)   Cob   Dip   PCB   board))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 14:11

## EAST Search History

S34	72924	((sensor   detect\$3) near4 (die   chip   chip\$1on   IC   (integrated near3 circuit\$2)   Cob   Dip   PCB   board))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:24
S35	1713	S33 same S34	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:25
S36	79	(S7   S15) & S35	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 15:00
S37	0	("2004/0246233").URPN.	USPAT	OR	OFF	2006/12/13 13:38
S38	0	("2005/0035946").URPN.	USPAT	OR	OFF	2006/12/13 13:43
S39	0	("2005/0093825").URPN.	USPAT	OR	OFF	2006/12/13 13:51
S40	2	("6927759"   "6967321"   "20050001818").pn.	USPAT	OR	OFF	2006/12/13 13:51
S41	8	("20020021277"   "20020190953"   "20030058222"   "20030099393"   "5994710"   "6281881"   "6344846"   "6433780").PN. OR ("6927759").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:54
S42	1	"20050001818"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:55
S43	6	("6421045"   "7071922"   "5994710"   "6281881"   "6344846"   "6433780").pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:57
S44	8	("6218659").PN. OR ("6421045").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 13:58
S45	15	("20030006965"   "20030142075"   "20030142078"   "20030201951"   "20040084610"   "20040149894"   "5517211"   "5578813"   "5686720"   "5943233"   "6256016"   "6421045"   "6424407"   "6462330"   "6486873").PN. OR ("7009598").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 14:01
S46	15	("20030006965"   "20030142075"   "20030142078"   "20030201951"   "20040084610"   "20040149894"   "5517211"   "5578813"   "5686720"   "5943233"   "6256016"   "6421045"   "6424407"   "6462330"   "6486873").PN. OR ("7068257").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 14:03

## EAST Search History

S47	9	("20030006985"   "5578813"   "5686720"   "5943233"   "6256016"   "6421045"   "6424407"   "6462330"   "6486873").PN. OR ("7129929").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 14:04
S48	46	("3285548"   "3286255"   "3659093"   "4195330"   "4521772"   "4521773"   "4794384"   "4799055"   "4866258"   "4908743"   "5264998"   "5291028"   "5440468"   "5517211"   "5578813"   "5644139"   "5686720"   "5703353"   "5709462"   "5729008"   "5769384"   "5786804"   "5793356"   "5825044"   "5949402"   "5994710"   "6040950"   "6049338"   "6057540"   "6084574"   "6104020"   "6119939"   "6151015"   "6175357"   "6188057"   "6233368"   "6281882"   "6380927"   "6421045"   "6462330"   "6476970"   "6501460"   "6531692"   "6657184").PN. OR ("7131751").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 14:06
S49	1	"20020101403".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 14:06
S50	7	("20030025671"   "20050162390"   "20050001818"   "20020190953"   "20030058222"   "20020021277"   "20020021277"   "20030099393").pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 14:10
S51	25744	((len\$1 near3 set)   refract\$1r)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 14:11
S52	50	S35 & S51	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 14:12
S53	113487	(light near4 guid\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/13 15:00
S54	272	S35 & S53	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/13 15:09
S55	10	(S7   S15) & S54	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 15:09

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S56	4995	(len\$1 near4 module)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 15:08
S57	41	S35 & S56	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/13 15:11
S58	5	(S7   S15) & S57	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 15:11
S59	937662	reflect\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 15:11
S60	1174	S35 & S59	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/13 15:11
S61	63	(S7   S15) & S60	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 16:32
S62	13	("5274456"   "5359190"   "5424531"   "5783815"   "5811799").PN. OR ("6462330").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 15:12
S63	954	((chip   module) near9 (compris\$3   includ\$3   consit\$3   hav\$3) near9 (LED   (light adj emit\$4)   (light adj source)   illuminat\$3) near9 (sens\$3   photo\$1diode   ccd))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/13 15:39
S64	37	(S7   S15) & S63	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 16:30
S65	490414	(pyramid\$2   prism   triang\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 16:32
S66	329	S35 & S65	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 16:32
S67	15	(S7   S15) & S66	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 16:32
S68	2	"6421045".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/15 09:55
S69	8	("6218659").PN. OR ("6421045"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/15 09:57

## EAST Search History

S70	4	("5517211"   "6462330"   "6421045"   "20030034959").pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/15 09:58
S71	2	"20030142075".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/15 10:04
S72	2	"20030034959".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/15 10:04